

Claims

What is claimed is:

1. A medical method performed on a patient, comprising:
 - intravascularly delivering a first electrical lead within the head of the patient;
 - 5 non-vascularly delivering a second electrical lead within the head of the patient;
 - placing the first and second leads adjacent brain tissue.
2. The method of claim 1, wherein the patient has a neurological disorder, the method further comprising stimulating the brain tissue with at least one of the first 10 and second electrical leads to treat the neurological disorder.
3. The method of claim 2, wherein the neurological disorder is a degenerative disorder.
4. The method of claim 2, wherein the neurological disorder is a brain infarction.
- 15 5. The method of claim 1, further comprising recording brain signals with at least one of the first and second electrical leads.
6. The method of claim 1, wherein the first electrical lead is introduced into the head via the circulatory system.
7. The method of claim 1, wherein the first electrical lead is introduced 20 into the head via the ventricular system.
8. The method of claim 1, wherein the first electrical lead is placed in direct contact with the brain tissue.
9. The method of claim 1, wherein the first electrical lead is placed in indirect contact with the brain tissue.

10. The method of claim 1, wherein the first electrical lead is placed adjacent cortical brain tissue, and the second electrical lead is placed adjacent deep brain tissue.

11. The method of claim 1, wherein the first electrical lead is placed 5 adjacent deep brain tissue, and the second electrical lead is placed adjacent cortical brain tissue.

12. The method of claim 1, wherein the first and second electrical leads are acutely placed adjacent the brain tissue.

13. The method of claim 1, wherein the first and second electrical leads are 10 subchronically or chronically placed adjacent the brain tissue.

14. The method of claim 1, further comprising electrically connecting the electrical leads to one or more of a stimulation source and a recorder.

15. The method of claim 14, further comprising implanting the one or more stimulation source and recorder within the patient.

16. A medical method performed on a patient, comprising:
delivering a first electrical lead within the head of the patient via a blood vessel;

delivering a second electrical lead within the head of the patient via an opening in an cranium of the patient; and

20 placing the first and second leads adjacent brain tissue.

17. The method of claim 16, wherein the patient has a neurological disorder, the method further comprising stimulating the brain tissue with at least one of the first and second electrical leads to treat the neurological disorder.

18. The method of claim 17, wherein the neurological disorder is a 25 degenerative disorder.

19. The method of claim 17, wherein the neurological disorder is a brain infarction.
20. The method of claim 16, further comprising recording brain signals with at least one of the first and second electrical leads.
- 5 21. The method of claim 16, wherein the first electrical lead is introduced into the head via the circulatory system.
22. The method of claim 16, wherein the first electrical lead is introduced into the head via the ventricular system.
- 10 23. The method of claim 16, wherein the first electrical lead is placed in direct contact with the brain tissue.
24. The method of claim 16, wherein the first electrical lead is placed in indirect contact with the brain tissue.
- 15 25. The method of claim 16, wherein the first electrical lead is placed adjacent cortical brain tissue, and the second electrical lead is placed adjacent deep brain tissue.
26. The method of claim 16, wherein the first electrical lead is placed adjacent deep brain tissue, and the second electrical lead is placed adjacent cortical brain tissue.
- 20 27. The method of claim 16, wherein the first and second electrical leads are acutely placed adjacent the brain tissue.
28. The method of claim 16, wherein the first and second electrical leads are subchronically or chronically placed adjacent the brain tissue.
29. The method of claim 16, further comprising electrically connecting the electrical leads to one or more of a stimulation source and a recorder.

30. The method of claim 29, further comprising implanting the one or more stimulation source and recorder within the patient.